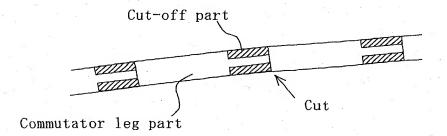
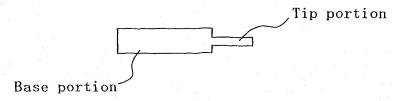


Fig. 2

Parent metal sheet to punch out commutator leg parts



Commutator leg part



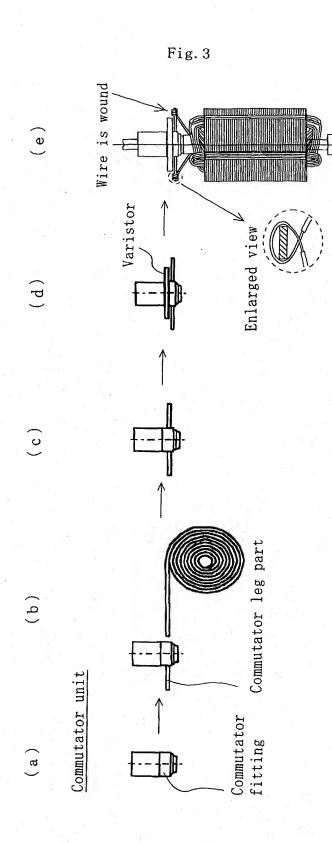




Fig. 4

Rotor

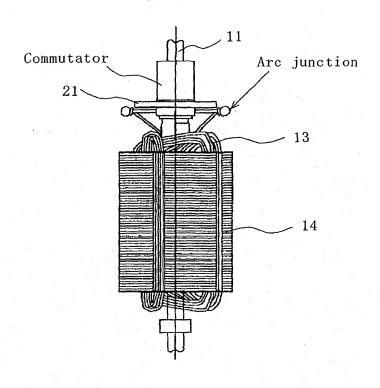
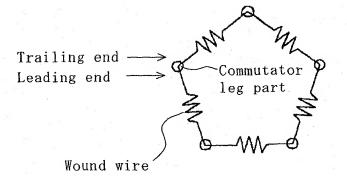


Fig. 5





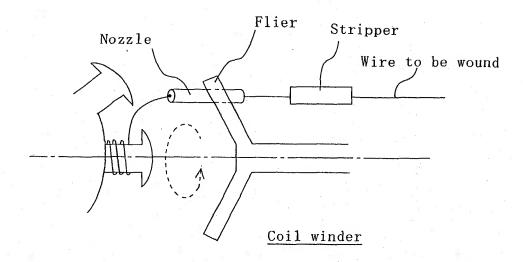


Fig. 7

Prior art

Commutator unit

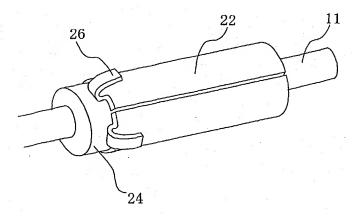






Fig. 8

Prior art

Commutator unit

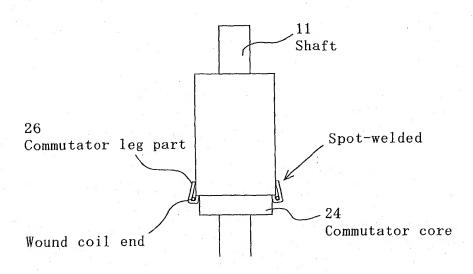


Fig. 9

Prior art

Commutator unit

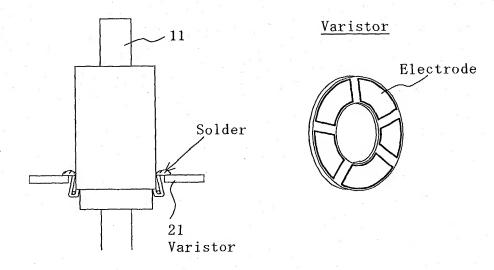


Fig. 10

Prior art

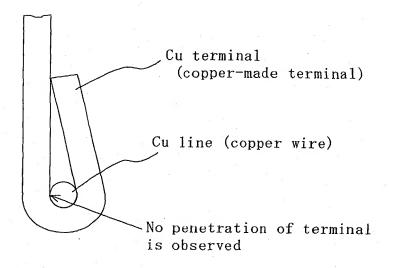


Fig. 11

